ADAPTIVE MEDIA CONTROL

Abstract of the Disclosure

A media control approach that supports transmission of data
streams with QoS requirements, such as minimum throughput or maximum
delay, while adapting to the changing characteristics of the
transmission medium. The media control approach includes use of a
polling manager and a resource manager. The resource manager provides
an admission control procedure that prevents admission of sessions that
cannot be supported by the system and allocates network resources
needed to support admitted sessions. The polling manager uses an
efficient "just in time" polling of stations based on their allocated
bandwidth or communication rates. Stations that do not use their
allocated rates are polled less often than those which use their
allocation, thereby increasing the total throughput of the system and
providing proper quality of service support for real-time applications.

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